IN THE CLAIMS

Please cancel claims 1-7 and add the following new claims 8-11 as follows:

1-7. Canceled

8. (New) An apparatus for measuring fluorescence or phosphorescence comprising:

a sample holder for holding a sample,

an excitation light beam generator for generating an excitation light beam to irradiate the sample therewith so as to emit fluorescence or phosphorescence from the sample, and

a photometer for detecting the emitted fluorescence or phosphorescence, wherein

the sample holder is a plate having a through-hole therein,

an excitation light generator side opening portion of the through-hole is equal to or larger in area than a photometer side opening portion of the through-hole, and

areas of the excitation light generator side opening portion and the photometer side opening portion are equal to or larger than a cross-sectional area of the excitation light beam in the vicinity of the sample.

9. (New) An apparatus for measuring fluorescence or phosphorescence according to claim 8, wherein the through-hole has a shape in which an inner surface of the through-hole is prevented from being irradiated with the excitation light beam.

10. (New) An apparatus for measuring fluorescence or phosphorescence according to claim 8, wherein the through-hole is in the form of a cylinder, a prism, cone, or a pyramid.

11. (New) An apparatus for measuring fluorescence or phosphorescence according to claim 8, wherein the sample holder is made of a material selected from a group consisting of carbon, grassy carbon, tungsten carbon and pyro-coated carbon.